

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/089445 A2

(51) International Patent Classification: Not classified

(21) International Application Number:
PCT/US2005/008960

(22) International Filing Date: 18 March 2005 (18.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/554,419 19 March 2004 (19.03.2004) US

(71) Applicant (for all designated States except US):
TROPHOGEN, INC. [US/US]; 6 Taft Court, Suite
150, Rockville, MD 20850 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SKUDLINSKI,**
Mariusz, W. [US/US]; 6 Taft Court, Suite 150, Rockville,
MD 20850 (US). **WEINTRAUB, Bruce, D.** [US/US]; 6
Taft Court, Suite 150, Rockville, MD 20850 (US).

(74) Agents: **TUSCAN, Michael, S.** et al.; Morgan, Lewis &
Bockius LLP, 1111 Pennsylvania Avenue, NW, Washing-
ton, DC 20005 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: FOLLICLE STIMULATING HORMONE SUPERAGONISTS

(57) Abstract: This invention provides superactive analogs of FSH demonstrating enhanced bioactivity both *in vitro* and *in vivo* as compared to wild type FSH. In particular, the analogs of the invention demonstrate at least a ten fold increase in potency or at least a ten percent increase in maximal efficacy as compared to wild type protein. The analogs are particularly useful for treating subjects showing low FSH receptor expression or poor FSH receptor responsiveness, and for the treatment of any condition associated with glycoprotein hormone activity.

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